



HIGHWAY 89 STORAGE UNITS PROGRESS REPORT

Date: December 21, 2009

Report No.: 4

ATK has been performing a Removal Action at the Highway 89 Storage Units Site (the Site) as part of the AOC Settlement Agreement. The EPA and ATK have agreed to this removal action in connection with the Site to dispose of chemicals stored at three separate locations in the Northern Utah counties of Weber and Box Elder. The chemicals present at the Site units were purchased as part of Mr. Rahkonen's model rocket supply business, Prodyne. The chemicals that were in storage were items not consumed during the period that Mr. Rahkonen actively ran the business. The EPA determined that the residual chemicals were a public health concern involving local, State, and Federal agencies. ATK had a working knowledge of the materials at the Site, and has entered into this AOC with the EPA to remove and dispose of the materials.

Mr. Nguyen:

The items below summarize the work conducted during the week of December 14, 2009 through December 20, 2009.

If you have any questions, please call me at 801.251.4865 or 801.450.9824.

Ron Bowlin, Project Coordinator

Significant Developments: 1) Agreement was made between the Box Elder County Sheriff, EPA, and owners of the EZ Access and Double D Storage Sites to put the seven (7) Rahkonen storage units under authority of the Bear River Health Department; 2) Access to the general storage area is now available to the other patrons; 3) Contact was made with the EPA OSC, Gina Andrews, on December 17, 2009, who was subsequently called to handle another incident off-site, therefore, sample collection was conducted without EPA presence under Ms. Andrews direction; 4) Wipe samples from the floors of the Rahkonen storage units were collected and delivered for analysis.



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Actions Performed: Wipe samples were collected by ATK employees from five (5) units at the EZ Access Storage Site (Units 3, 4, 5, 14, and 45) in Willard, Utah, and two (2) units at the Double D Storage Site (Units 7 and 13) in Perry, Utah. Two samples-of-record (SOR) were collected from each unit at locations that indicated staining and/or potential spillage from containers, for a total of 14 SOR. Three split samples (21%) and one field blank (7%) were collected. This exceeds EPA guidance of 5%.

A walk-through was conducted with ATK and the OSC to discuss the locations for sample collection. At each location a wipe sample was collected for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), energetics (nitroglycerin, HMX, and RDX), and fuel metals (aluminum and magnesium) as documented in the EPA-approved work plan. Appropriate personal protective equipment (safety glasses, protective gloves, and smock) were worn during sampling activities. Care was taken to mitigate any potential cross-contamination of each sample location.

At each sample location a dedicated 100cm² template was used to define the sampling area. Samples for each set of analytes were collected using a 3" x 3" piece of sterile surgical gauze. Each piece of gauze was saturated using a dedicated syringe, with five milliliters of solvent. The template area was wiped using standard wipe techniques. The analytes using de-ionized water as the solvent of choice were sampled first (VOCs and metals), followed by those using methanol as the solvent (SVOC and energetics). The template was moved, but located in a contiguous area, for each analyte. The gauze was immediately rolled with the wiped surface on the inside, placed into a 40ml glass vial, and put in an iced cooler. A Surface Contamination Sampling Form was immediately filled out, and information later transferred to Chain-of-Custody (COC) forms prior to transport and delivery. Copies are attached with this Progress Report.

The three split samples collected were delivered to an independent laboratory for analysis. Split samples were collected by wiping the area for each analyte twice, with a separate piece of sterile gauze. Each piece of gauze was cut in half, being careful to divide the gauze perpendicular to the direction of collection. The two independent pieces were rolled together and placed in a vial.



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The field blank was collected by opening the sterile gauze packet, saturating it with 5 milliliters of solvent for the respective analyte, and laying it across the sample vial, exposing it to the atmosphere while sampling activities were conducted. The field blank will be analyzed at the ATK Promontory laboratory.

Problems Encountered: It is not possible to document whether the staining within the units occurred from storage and spillage from Rahkonen materials or from previous storage activities. Samples were collected with the assumption that all staining was from the Rahkonen materials.

Wipe sampling is best used on smooth, non-porous surfaces. Sample surfaces of the storage units consisted of semi-porous concrete that tended to be fairly rough, overall. Wipe sampling is not considered quantitative because of the fairly large variability in several parts of the sampling process and extraction of the analyte of interest from the wipe. Wipe sampling is not always reproducible on rough, porous materials.

Because of the roughness of the concrete surface, the wipe was stroked left to right, then turned 180°, and stroked up and down the sampling area. The center part of the gauze was then “dabbed” across the sampling area. Samplers were directed to maintain consistent pressure through the wiping of the surface.

Planned Resolutions: No resolutions to any problems are required. Sampling procedures took all precautions to collect samples that would be representative of any contaminants that would be of potential concern.

Analytical Data Received: SORs were delivered to the ATK Promontory laboratory under COC documentation. The split samples were delivered to ALS Laboratories in Salt Lake City, Utah. Results are expected within approximately three to four weeks.

Developments Anticipated: No additional developments are anticipated while waiting for the analytical results. The storage units will remain locked and under the authority of the Bear River Health Department.

Schedule of Upcoming Actions: No upcoming actions are scheduled.

Anticipated Problems: There are no anticipated problems.

Planned Resolutions: There are no anticipated resolutions.

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: EZ Access Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
EZ-3-1A	12/17/09	1245	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-3-1B	12/17/09	1245	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-3-1C	12/17/09	1245	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-3-1D	12/17/09	1245	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-3-2A	12/17/09	1250	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-3-2B	12/17/09	1250	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-3-2C	12/17/09	1250	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-3-2D	12/17/09	1250	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		12/18/09	13:05

Location:

EZ Access, Unit 3

Notes:

Area 1 lathered when sampled with both solvents

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number

Surface Type

Photo Number

EZ-3-1 Time: 1245	Analyte	V S E P M	Concrete	11	1 sq. ft
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
EZ-3-2 Time: 1250	Analyte	V S E P M	Concrete	12	1 sq. ft
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
EZ-3-3 Time: 1255	Analyte	V S E P M	Duplicate of EZ-3-1	—	1 sq. ft.
	Solvent	W M I H A O			100 sq. cm
	Media	C G F P			
	Area	T M E O			

Sample Date:

12/17/09

Samples Collected By: *Rob Bowler*

(Print Name and Signature)

Rob Bowler

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: EZ Access Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
EZ-4-1A	12/17/09	1158	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-4-1B	12/17/09	1158	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-4-1C	12/17/09	1158	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-4-1D	12/17/09	1158	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-4-2A	12/17/09	1155	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-4-2B	12/17/09	1155	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-4-2C	12/17/09	1155	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-4-2D	12/17/09	1155	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		12/18/09	13:05

Location:
EZ Access - Unit 4

Notes:

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number	Analyte	Solvent	Media	Area	Surface Type	Photo Number	Area
EZ-4-1 Time: 1158	V S E P M	W M I H A O	C G F P	T M E O	Concrete	8	1 sq. ft
							X 100 sq. cm
EZ-4-2 Time: 1156	V S E P M	W M I H A O	C G F P	T M E O	Concrete	9, 10	1 sq. ft
							X 100 sq. cm
EZ-4-3 Time: 1200	V S E P M	W M I H A O	C G F P	T M E O	Duplicate of EZ-4-2	—	1 sq. ft
							100 sq. cm

Sample Date:
12/17/09

Samples Collected By: Ron Bowlin
(Print Name and Signature) *Ron Bowlin*

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: EZ Access Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
EZ-5-1A	12/17/09	1120	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-5-1B	12/17/09	1120	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-5-1C	12/17/09	1120	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-5-1D	12/17/09	1120	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-5-2A	12/17/09	1140	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-5-2B	12/17/09	1140	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-5-2C	12/17/09	1140	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-5-2D	12/17/09	1140	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		12/18/09	13:05

Location:
EZ Access Unit 5

Notes:

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number	Analyte	Solvent	Media	Area	Surface Type	Photo Number	Area
EZ-5-1 Time: 1120	V S E P M	W M I H A O	C G F P	T M E O	Concrete	517	1 sq. ft
							X 100 sq. cm
EZ-5-2 Time: 1140	V S E P M	W M I H A O	C G F P	T M E O	Concrete	6	1 sq. ft
							X 100 sq. cm
EZ-5-3 Time: 1200	V S E P M	W M I H A O	C G F P	T M E O	Duplicate of EZ-5-1	-	1 sq. ft
							100 sq. cm

Sample Date:
12/17/09

Samples Collected By: Ron Bowlin
(Print Name and Signature) *Ron Bowlin*

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: EZ Access Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
EZ-14-1A	12/17/09	1330	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-14-1B	12/17/09	1330	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-14-1C	12/17/09	1330	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-14-1D	12/17/09	1330	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-14-2A	12/17/09	1335	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-14-2B	12/17/09	1335	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-14-2C	12/17/09	1335	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-14-2D	12/17/09	1335	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		12/18/09	13:05

Location:

EE Access - Unit 14

Notes:

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number

Surface Type

Photo Number

EE-14-1 Time: 1530	Analyte	V S E P M	Concrete	13, 14	1 sq. ft.
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
EE-14-2 Time: 1335	Analyte	V S E P M	Concrete	15, 16	1 sq. ft.
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
— Time: —	Analyte	V S E P M	—	—	1 sq. ft.
	Solvent	W M I H A O			100 sq. cm
	Media	C G F P			
	Area	T M E O			

Sample Date:

12/17/09

Samples Collected By:

(Print Name and Signature)

Ron Bowlin
RABowlin

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: EZ Access Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
EZ-45-1A	12/17/09	1030	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-45-1B	12/17/09	1030	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-45-1C	12/17/09	1030	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-45-1D	12/17/09	1030	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-45-2A	12/17/09	1030	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-45-2B	12/17/09	1030	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-45-2C	12/17/09	1030	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-45-2D	12/17/09	1030	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-45-3A	12/17/09	1030	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-45-3B	12/17/09	1030	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-45-3C	12/17/09	1030	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-45-3D	12/17/09	1030	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		12/18/09	13:05

Location:

EZ Access - Unit 45

Notes:

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number

Surface Type

Photo Number

EZ-45-1 Time: 1030	Analyte	V S E P M	Concrete	001	1 sq. ft
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
EZ-45-2 Time: 1030	Analyte	V S E P M	Concrete	002	1 sq. ft
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
EZ-45-3 Time: 1030	Analyte	V S E P M	Field Blank	-	1 sq. ft.
	Solvent	W M I H A O			100 sq. cm
	Media	C G F P			X NA
	Area	T M E O			

Sample Date:

12/17/09

Samples Collected By:

(Print Name and Signature)

Ron Bowling
ROB Bowling

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: Double D Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
DD-7-1A	12/17/09	1550	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
DD-7-1B	12/17/09	1550	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
DD-7-1C	12/17/09	1550	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
DD-7-1D	12/17/09	1550	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
DD-7-2A	12/17/09	1555	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
DD-7-2B	12/17/09	1555	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
DD-7-2C	12/17/09	1555	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
DD-7-2D	12/17/09	1555	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
<i>R. Bowlin</i>	<i>J. Deppe</i>	12/18/09	13:05

Location:

Double D Storage - Unit 7

Notes:

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number

Surface Type

Photo Number

DD-7-1 Time: 1550	Analyte	V S E P M	Concrete	17	1 sq. ft.
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
DD-7-2 Time: 1555	Analyte	V S E P M	Concrete	18	1 sq. ft.
	Solvent	W M I H A O			X 100 sq. cm
	Media	C G F P			
	Area	T M E O			
— Time: —	Analyte	V S E P M	—	—	1 sq. ft.
	Solvent	W M I H A O			100 sq. cm
	Media	C G F P			
	Area	T M E O			

Sample Date:

12/17/09

Samples Collected By: Ron Bowen
(Print Name and Signature)

Ron Bowen

12/18/2009



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: M53	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO:	COLLECTION LOCATION: Double D Storage	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
DD-13-1A	12/17/09	1510	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
DD-13-1B	12/17/09	1510	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
DD-13-1C	12/17/09	1510	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
DD-13-1D	12/17/09	1510	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
DD-13-2A	12/17/09	1515	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
DD-13-2B	12/17/09	1515	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
DD-13-2C	12/17/09	1515	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
DD-13-2D	12/17/09	1515	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm. area

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		12/18/09	13:05

Location:
Double D Storage - Unit 13

Notes:
Carbon black throughout floor

Analyte	Method
V VOC	8260
S SVOC	8270
E Energetics	8330
P Perchlorate	314.0
M Metals:	

Solvent
W DI Water
M Methanol
I IPA
H Hexane
A Acetone
O Other

Sample Media
C Cotton Gauze
G Ghost Wipe™
F Filter Paper
P Pre-Moistened

Area Measurement
T Template
M Measured Area
E Estimated Area
O Other:

Sample Number	Analyte	Solvent	Media	Area	Surface Type	Photo Number	Area
DD-13-1 Time: 1510	V S E P M	W M I H A O	C G F P	T M E O	Concrete	19	1 sq. ft X 100 sq. cm
DD-13-2 Time: 1515	V S E P M	W M I H A O	C G F P	T M E O	Concrete	20	1 sq. ft X 100 sq. cm
— Time: —	V S E P M	W M I H A O	C G F P	T M E O	—	—	1 sq. ft 100 sq. cm

Sample Date:
12/17/09

Samples Collected By: Ron Bowling
(Print Name and Signature) *RA Bowling*



ATK Launch Systems
P.O. BOX 98 MAGNA, UTAH 84404

Environmental Lab Work Request

GENERAL INFORMATION

LAB: <i>ALS/DATACHEM</i>	COLLECTED BY: R. Bowlin S. Deppe	COMPANY:	TITLE:
P.O. NO: <i>ATK-44544</i>	COLLECTION LOCATION: Rakonen Sites	CONTACT: Ronald Bowlin	
M-53 PROJ_ID WPKG: 988P LS333ENV	MATERIAL SAMPLED: Wipe	EMAIL: ronald.bowlin@atk.com	

SAMPLE INFORMATION

SAMPLE NUMBER	DATE	TIME	METHOD	BOTTLE	PRESERVATIVE	ANALYSIS REQUESTED	NOTE
EZ-5-3A	12/17/09	1200	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-5-3B	12/17/09	1200	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-5-3C	12/17/09	1200	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-5-3D	12/17/09	1200	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-4-3A	12/17/09	1200	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-4-3B	12/17/09	1200	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-4-3C	12/17/09	1200	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-4-3D	12/17/09	1200	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	
EZ-3-3A	12/17/09	1255	Wipe	40 ml VOA	4C: DI Water	VOC: EPA 8260B	
EZ-3-3B	12/17/09	1255	Wipe	40 ml VOA	4C: Methanol	SVOC: EPA 8270B	
EZ-3-3C	12/17/09	1255	Wipe	40 ml VOA	4C: Methanol	NG, HMX, RDX: SW-846, 8330 Modified	
EZ-3-3D	12/17/09	1255	Wipe	40 ml VOA	4C: DI Water	Aluminum, Magnesium: EPA 6010B	

NOTE: 100 sq. cm.

CHAIN OF CUSTODY

RELINQUISHED BY	RECEIVED BY	DATE	TIME
<i>Ra Boes</i>	<i>Rulle</i>	<i>12/18/09</i>	<i>11:15</i>



HIGHWAY 89 SITE UNITS PROGRESS REPORT

Date: December 7, 2009

Report No.: 2

Mr. Nguyen:

This Progress Report is being sent to you electronically. As per your request, the four (4) hard copies as stated in the AOC are not required. The items below summarize the work conducted during the week of November 30, 2009 through December 6, 2009.

If you have any questions, please call me at 801.251.4865 or 801.450.9824.

Ron Bowlin, Project Coordinator

Significant Developments: 1) Wastes at the Residence Site were removed and manifested for transport and disposal; 2) Activity moved to the EZ Access Storage site; 3) Wastes were packaged, labeled, and either loaded onto a vehicle for transport or staged in vacant units; 4) Activity at the EZ Access Storage unit appears to be ahead of schedule; 5) Non-hazardous industrial wastes will be transported and disposed at the ATK Promontory Subtitle D permitted landfill under a non-hazardous waste manifest

Actions Performed: Site mobilization began on Monday, November 30, 2009, at the Residence unit. Waste and materials placed in the two containers by the EPA contractor were successfully repackaged, loaded, manifested, and transported from the site. Some additional materials not identified by the EPA contractor (spent test rocket tubes) were discovered in a small container next to the northern storage box. These items were added to the materials removed.

The project team demobilized from the Residence and mobilized to the EZ Access Storage site in Willard, Box Elder County. A total of nine (9) storage units contained some assemblage of waste and/or materials. Significant progress was made in identifying, packaging, and staging of wastes. A total of six (6) units were cleaned of wastes and materials.

Problems Encountered: No significant problems have been encountered. Drums, roll-offs, and other materials and equipment have been acquired with no delay to the project.



HIGHWAY 89 SITE UNITS PROGRESS REPORT

Planned Resolutions: To assure that a shortage of materials does not delay the project, additional vendors of drums and materials have been identified.

Analytical Data Received: No additional data, besides that provided to ATK by the EPA or its contractor, has been received. No samples have been sent to a laboratory for analysis. On-site HazCat testing has been satisfactory.

Developments Anticipated: We anticipate that progress will continue at the current rate. The middle and eastern lines of storage units will be completed and empty, moving activities to the final western line of units. One transport truck has been completely loaded and will depart the site on Monday for the Veolia Transfer Terminal.

Schedule of Upcoming Actions: Work will continue at the EZ Access site in Willard. The current plan is to finish activities by noon Wednesday, ship the second truck of manifested waste, and mobilize to the Double D Storage site in Perry, Box Elder County.

Anticipated Problems: Weather has turned extremely cold; with morning temperatures down to 13F and highs in the upper 20s. Cold temperatures can slow progress from both activity levels and safety concerns.

Planned Resolutions: Weather conditions will be monitored and communications with on-site personnel to dress for the daily conditions. Box Elder County has provided a heated trailer as necessary for the workers. Workers have been advised to wear appropriate clothing. A propane heater has been used to keep storage units warm where computers and electronic instruments are being used.



HIGHWAY 89 STORAGE UNITS PROGRESS REPORT

Date: December 14, 2009

Report No.: 3

Mr. Nguyen:

ATK has been performing a Removal Action at the Highway 89 Storage Units Site (the Site) as part of the AOC Settlement Agreement. The EPA and ATK have agreed to this removal action in connection with the Site to dispose of chemicals stored at three separate locations in the Northern Utah counties of Weber and Box Elder. The chemicals present at the Site units were purchased as part of Mr. Rahkonen's model rocket supply business, Prodyne. The chemicals that were in storage were items not consumed during the period that Mr. Rahkonen actively ran the business. The EPA determined that the residual chemicals were a public health concern involving local, State, and Federal agencies. ATK had a working knowledge of the materials at the Site, and has entered into this AOC with the EPA to remove and dispose of the materials.

The items below summarize the work conducted during the week of December 7, 2009 through December 13, 2009.

If you have any questions, please call me at 801.251.4865 or 801.450.9824.

Ron Bowlin, Project Coordinator

Significant Developments: 1) Wastes at both the EZ Access Storage site in Willard, Utah, and Double D Storage in Perry, Utah have been removed and manifested for transport and disposal; 2) Removal Actions were completed approximately nine (9) days ahead of the approved schedule; 3) Storage units at the two Sites were swept and wet mopped; 4) Storage units were evaluated for possible sampling locations; 5) Non-hazardous industrial wastes were transported and disposed at the ATK Promontory Subtitle D permitted landfill under a non-hazardous waste manifest.

Actions Performed: All actions on-site were conducted by ATK and Veolia personnel. A site safety meeting was held each morning prior to beginning



HIGHWAY 89 STORAGE UNITS PROGRESS REPORT

operations. All personnel working on-site were required to sign the attendance log. At the end of each work day a "tail-gate" meeting was held to evaluate any safety or work concerns, and prepare the next day's work. Continuous reading for volatile organic compounds using a photo-ionization detector was conducted. Oxygen concentrations and lower explosive limits (LEL) were also monitored continuously.

The Removal Action was completed since the submission of the last Progress Report. In total, 41 drums/containers were removed from the Rohkonen residence Site; 169 drums/containers were removed from the EZ Access Site; and 54 drums/containers were removed from the Double D Site. The "drums/containers" mentioned includes all one cubic yard boxes, 85-, 55-, and 30-gallon metal, poly, and fiber drums, and all smaller fiber drums and plastic pails. Most of the drums and containers manifested for transport and disposal were loose packed with numerous containers of like chemical profile. Tables showing the manifest numbers for each day's shipment, waste streams, number of containers, and waste codes are included with this report. Containers were shipped to either Viola's Henderson facility or directly to US Ecology. Shipments' to Henderson will be evaluated for either shipment to Port Arthur, Texas or Sauget, Illinois.

Two roll-off units of industrial non-hazardous waste were transported to the ATK Promontory, Subtitle D landfill under a non-hazardous waste manifest.

A number of energetic that were not capable of being transported commercially on the highway based on Department of Transportation regulations were turned over to the Box Elder County Sheriff Department for disposal by their personnel. ATK has given Sheriff Department information on each of the energetic materials. None of the materials should be detonated, but burned only.

Written notification of waste material being sent from the Sites to an off-site waste management facility has been sent to the On-Scene Coordinator and the appropriate receiving state's environmental official.

Problems Encountered: No significant problems were encountered. Cold weather did present a few issues with getting around the site, transport truck movement, and safety observations.

Planned Resolutions: No resolutions are required.



HIGHWAY 89 STORAGE UNITS PROGRESS REPORT

Analytical Data Received: No samples have been sent to a laboratory for analysis. On-site HazCat testing was satisfactory.

Developments Anticipated: Wipe sampling at representative areas within the storage units leased by the Rohkonen's will be conducted. Samples will be analyzed by the ATK Promontory laboratory. Ten percent of the samples will be sent to an independent laboratory as split samples for verification.

Schedule of Upcoming Actions: Wipe sampling of the concrete in the seven Rohkonen storage units are planned for Thursday, December 17, 2009.

Anticipated Problems: There are no anticipated problems.

Planned Resolutions: There are no anticipated resolutions.

Shipment Date: 12/2/2009

Shipped From: Rohkonen Residence

Manifest Numbers: 000191567VES; 000191568VES; ZZ00140087

Waste Stream	# of Containers	Waste Codes			Initial Destination	Projected Final Destination
		D	U	P		
Flammable (Loose)	3	001 007 008 035 040	154 159 209		HEN	PTA
Water Reactive Solid	1	001 003			HEN	PTA
Ammonium Perchlorate	10	001 003			HEN	TWI
Oxidizing Liquid, (LP)	1	001 003 005 007			HEN	TWI
Potassium Perchlorate	1	001			HEN	TWI
Oxidizing Solid (LP)	1	001 008			HEN	TWI
Toxic (LP)	1	007			HEN	PTA
Toxic Liquid	1	005 007 016 040	226	120	HEN	PTA
RCRA Amines (LP)	1	002			HEN	PTA
Corrosive Liquids	1	002			HEN	PTA
DOT Amines (LP)	3	--			HEN	PTA
Asbestos Mix	1	--			HEN	USI
Aerosols	1	001			HEN	PTA
Non-regulated (LP), box	1	--			HEN	PTA
Non-regulated	6	--			HEN	PTA
Pyrophoric metals (LP)	1	001 003			HEN	TWI
Self-heating, Inorganic Solids	1	001 003			HEN	TWI
Zinc Powder	2	001 003			HEN	PTA
Calcium Carbide (LP)	1	001 003			HEN	PTA
Magnesium Powder	1	001 003			HEN	PTA
Dextrose Solid	1	--			USI	USI
Non-regulated Liquids	1	--			USI	USI

HEN = Veolia, Henderson, Colorado

TWI = Viola, Sauget, Illinois

PTA = Viola, Port Arthur, Texas

USI = US Ecology, Grandview, Idaho

Loose = Loose Pack Contained

LP = Lab Pack

box = 1 cubic yard cardboard box

Shipment Date: 12/7/2009
 Shipped From: EZ Access
 Manifest Numbers: 000143377VES

Waste Stream	# of Containers	Waste Codes			Initial Destination	Projected Final Destination
		D	U	P		
Flammable (Loose)	38	001 007 008 019 035 039 040	112 154 159		HEN	PTA
Toxic (LP)	5	006 007 008 035			HEN	PTA
TCA (Loose)	1		226		HEN	TWI
DOT Amines (LP)	25	--			HEN	PTA
Aerosols	3	001 035			HEN	PTA
Non-regulated (Loose)	1	--			HEN	PTA
Non-regulated (Loose), box	14	--			HEN	PTA

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HEN = Veolia, Henderson, Colorado
 TWI = Violaia, Sauget, Illinois
 PTA = Violaia, Port Arthur, Texas
 USI = US Ecology, Grandview, Idaho

Loose = Loose Pack Contained
 LP = Lab Pack
 box = 1 cubic yard cardboard box

Shipment Date: 12/8/2009
 Shipped From: EZ Access
 Manifest Numbers: 000144407VES;

Waste Stream	# of Containers	Waste Codes			Initial Destination	Projected Final Destination
		D	U	P		
Cylinder (LP)	6	-			HEN	TWI
Flammable (Loose)	1	001 007 035			HEN	PTA
Fuel Treatment	1	001	359		HEN	HEN
Ammonium Perchlorate (LP)	4	001 003			HEN	TWI
Potassium Perchlorate	1	001 003			HEN	TWI
Toxic (Loose)	7	07 008 011			HEN	PTA
DOT Amines (Loose)	13	--			HEN	PTA
Aerosols	1	001 035 039 040	226		HEN	PTA
Non-regulated (Loose),box	7	-			HEN	PTA

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HEN = Veolia, Henderson, Colorado
 TWI = Viola, Sauget, Illinois
 PTA = Viola, Port Arthur, Texas
 USI = US Ecology, Grandview, Idaho

Loose = Loose Pack Contained
 LP = Lab Pack
 box = 1 cubic yard cardboard box

Shipment Date: 12/10/2009
 Shipped From: EZ Access
 Manifest Numbers: 000143378VES; 000143379VES

Waste Stream	# of Containers	Waste Codes			Initial Destination	Projected Final Destination
		D	U	P		
Asbestos, non-friable (Loose)	32	--			USI	USI
Aluminum Powder	1	001 003			HEN	TWI
Ammonium Perchlorate (LP)	1	001 003			HEN	TWI
Ammonium Perchlorate	1	001 003			HEN	TWI
Barium Nitrate	1	001 005			HEN	TWI
Oxidizing Solid	1	001 003			HEN	TWI
Potassium Perchlorate	2	007 008 011			HEN	PTA
Chloroform (LP)	2	022	44		HEN	TWI

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 USI = US Ecology, Grandview, Idaho

Loose = Loose Pack Contained
 LP = Lab Pack
 box = 1 cubic yard cardboard box

Shipment Date: 12/10/2009

Shipped From: Double D Storage

Manifest Numbers: 000144408VES; 000007102VES; ZZ00004495

Waste Stream	# of Containers	Waste Codes			Initial Destination	Projected Final Destination
		D	U	P		
Aluminum Powder	1	001 003			HEN	HEN
Ammonium Perchlorate	10	001 003			HEN	TWI
Oxidizing Solid, Poison (LP)	1	001 003 005 007			HEN	TWI
DOT Amines	1	--			HEN	PTA
Non-regulated (Loose)	1	--			HEN	PTA
Flammable (Loose)	1	001 003 005			HEN	PTA
Magnesium Powder (LP)	1	001 003			HEN	TWI
Zinc Dust (LP)	1	001 003			HEN	TWI
Hydrogen Peroxide, Aqueous	1	001 002			HEN	TWI
Toxic (Loose)	1	07 008 011			HEN	PTA
Corrosive/Toxic, Liquid	1	002			HEN	TWI
Hazardous Waste, Solid	1	034	131		HEN	TWI
Combustible, Liquid	1	--			HEN	TWI
Isocyanates	2	--			USI	USI
Non-regulated, Liquids	30	--			USI	USI

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TOT: 264

HEN = Veolia, Henderson, Colorado

TWI = Viola, Sauget, Illinois

PTA = Viola, Port Arthur, Texas

USI = US Ecology, Grandview, Idaho

Loose = Loose Pack Contained

LP = Lab Pack

box = 1 cubic yard cardboard box